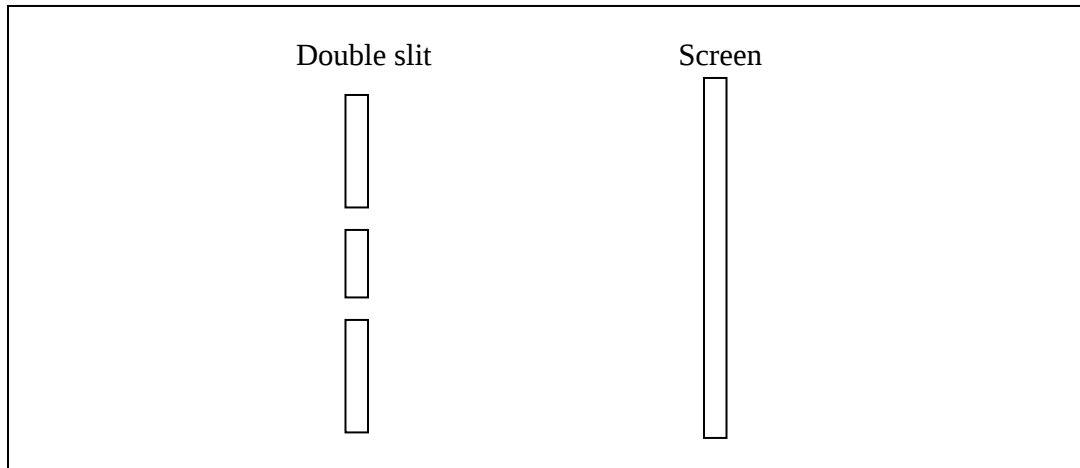

Ph 212: In Class Exercise – Double Slit Diffraction

Below is a diagram representing a typical setup for a double-slit diffraction.

Go to: <http://vsg.quasihome.com/interfer.htm>



Step 1: Sketch a representation of the observations made on the screen in such a setup.

Step 2: Write down the equation that models the observed phenomena.

Step 3: On the diagram above, sketch in labels for what the values y_m , m , L , λ and d and w represent.

Step 4: Discuss any approximations and assumptions that needed to be made.

Further reflection: notice that there is a single slit placed before the double slit. What is the purpose of that single slit?